HL07-15 A PROMISING NEW SOYBEAN VARIETY

Nguyen Van Chuong, Ha Huu Tien and Dinh Van Cuong

Soybean variety HL 07-15 was selected from the cross in 2005. HL 07-15 was selected and developed from the cross (HL 203 x HL 92) and introduced into production by Hung Loc Agricultural Research Center (HARC), Institute of Agricultural Sciences for Southern Vietnam (IAS) in 2009. It is a product of the research project "Breeding for soybean, groundnut and mungbean varieties for the Southeast Region, Central Highlands and Mekong Delta, 2006-2008".

Results from evaluation experiments from 2006 to 2010 showed that the variety has a crop duration of 80-85 days, a plant height of 50-70 cm, and white flower color. The number of level 1 branches ranged between 2.5 to 3.5, bearing 30-50 pods per plant. The 3-seed pods occupied 60-70% of the total dried pod harvest and 1000-seed weight ranged between 150-165gr. HL07-15 is characterized by a relatively uniform ripening, minimal field seed shedding. At full maturity, the seed turned bright yellow with light brown hillum and contained 34% crude protein and 20% oil. Under the field conditions, HL07-15 showed good level of resistance to soybean rust (Phakopsora pachyrhizi) and bacterial leaf spot (Pseudomonas syringae). Grain yields of 1.5 to 1.8 tones/ha were obtained for the Summer- Autumn and Autumn – Winter seasons. For Winter - Spring and Spring - Summer seasons, HL07-15 yield attained 2.5 to 3.0 tones/ha.

For HL 07-15 has proven to be suitable for cultivation in the South East region, Central Highlands and Cuu Long River Delta, farmers have voluntarily expanded its production in the provinces of Dong Nai, Dong Thap and An Giang in the Winter - Spring season 2009-2010 and Spring - Summer season 2010.